

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1. (CURRENTLY AMENDED) High data rate inter-satellite communications links method for a plurality of satellites comprising providing, for each satellite, an ultrafast time hopping wireless satellite communications link of an allowed bandwidth, in
5 which data is transmitted using individual packets or ~~pulses~~ and
pulses in a sequence of such packets or pulses, causing said individual packets or pulses to be short in duration so that the individual packets are pulsed and signal energy is spread ~~over the~~
over said allowed bandwidth substantially simultaneously and
10 instantaneously.

Claim 2. (ORIGINAL) The invention defined in Claim 1 wherein a time hopping sequential code is used to position the said packets or pulses precisely in sequence thereby providing optimum use of frequency space and also providing noninterfering
5 transmission channels due to the orthogonality of the coding scheme used.

Claim 3. (ORIGINAL) The invention defined in Claim 1 wherein the ultrashort nature of the individual packets or pulses

used permits the time duration of a frame to be divided into very many microintervals of time in which the signal occurs.

173
Claim 4. (ORIGINAL) The invention defined in Claim 3 wherein said division into very many microintervals in a frame to permit the availability of as many possible coding schemes as many non-interfering transmission channels.
